

In the Claims:

Please amend the claims as follows:

A2
1-19. (Canceled).

20. (New) A boot device for coupling to a computer system, comprising:

a first storage device configured to store an operating system for booting the computer system; and

a second storage device configured to store the operating system for booting the computer system;

wherein said first storage device and said second storage device appear as a single target device to the computer system; and

wherein the boot device is configured so the computer system can access the operating system from either the first storage device or the second storage device in event of a failure of one of the storage devices.

21. (New) The boot device as recited in claim 20, wherein the boot device is configured to receive read accesses from the computer system for the single target device and respond with read data from either the first storage device or the second storage device.

22. (New) The boot device as recited in claim 20, wherein the boot device is configured to send a read access to both the first storage device and the second storage device and return read data to the computer system from whichever of the first storage device and the second storage device responds first.

23. (New) The boot device as recited in claim 20, wherein the boot device is configured to receive write data from the computer system for the single target device and store the data on both the first storage device and the second storage device.

24. (New) The boot device as recited in claim 20, wherein the second storage device is configured as a complete mirror of the first storage device.

A2
25. (New) The boot device as recited in claim 20, wherein the boot device is configured to:

detect a failure of one of the storage devices;

receive a replacement storage device for the failed storage device; and

mirror the non-failed one of the storage devices to the replacement storage device.

26. (New) The boot device as recited in claim 25, wherein, in response to detecting the failure of one of the storage devices, the boot device is configured to automatically continue to allow the computer system to operate from the non-failed storage device while the failed storage device is being replaced and the replacement storage device is being mirrored from the non-failed storage device.

27. (New) The boot device as recited in claim 20, further comprising:

a first port for providing a first path from the computer system to the first and second storage devices; and

a second port for providing a second path from the computer system to the first and second storage devices;

wherein the boot device is configured to respond to accesses from the computer system on either port as said single target device.

A2
28. (New) The boot device as recited in claim 27, wherein both the first port and the second port are configured to have the same world wide number (WWN) to the computer system.

29. (New) The boot device as recited in claim 27, wherein if one of the ports fails, the first and second storage devices can still be accessed through the other port.

30. (New) The boot device as recited in claim 27, further comprising a serial interface separate from data paths to the first and second storage devices, wherein the serial interface is configured to communicate failure information to the computer system.

31. (New) The boot device as recited in claim 20, further comprising a redundant power supply configured to supply power without interruption to the boot device if another power supply for the boot device fails.

32. (New) The boot device as recited in claim 20, further comprising an LED component configured to indicate if one of the storage devices fails.

33. (New) A computer system, comprising:

a processor configured to execute an operating system; and

a boot device coupled to the processor as a single target device, the boot device comprising:

a first storage device configured to store the operating system; and

a second storage device configured to store the operating system;

wherein the boot device is configured so the computer system can access the operating system from either the first storage device or the second storage device in event of a failure of one of the storage devices.

A2
34. (New) The computer system as recited in claim 33, wherein the boot device is configured to receive read accesses from the processor for the single target device and respond with read data from either the first storage device or the second storage device.

35. (New) The computer system as recited in claim 33, wherein the boot device is configured to send a read access from the processor to both the first storage device and the second storage device and return read data to the processor from whichever of the first storage device and the second storage device responds first.

36. (New) The computer system as recited in claim 33, wherein the boot device is configured to receive write data from the processor for the single target device and store the data on both the first storage device and the second storage device.

37. (New) The computer system as recited in claim 33, wherein the second storage device is configured as a complete mirror of the first storage device.

38. (New) The computer system as recited in claim 33, wherein the boot device is configured to:

detect a failure of one of the storage devices;

receive a replacement storage device for the failed storage device; and

mirror the non-failed one of the storage devices to the replacement storage device.

39. (New) The computer system as recited in claim 38, wherein, in response to detecting the failure of one of the storage devices, the boot device is configured to automatically continue to allow the processor to operate from the non-failed storage device while the failed storage device is being replaced and the replacement storage device is being mirrored from the non-failed storage device.

40. (New) The computer system as recited in claim 33, wherein the boot device further comprises:

a first port for providing a first path to the first and second storage devices; and

a second port for providing a second path to the first and second storage devices;

wherein the boot device is configured to respond to accesses from the processor on either port as said single target device.

41. (New) The computer system as recited in claim 40, wherein both the first port and the second port are configured to have the same world wide number (WWN) in the computer system.

42. (New) The computer system as recited in claim 40, wherein if one of the ports fails, the first and second storage devices can still be accessed through the other port.

43. (New) The computer system as recited in claim 40, wherein the boot device further comprises a serial interface separate from data paths to the first and second storage devices, wherein the serial interface is configured to communicate failure information to the processor.

44. (New) The computer system as recited in claim 33, wherein the boot device further comprises a redundant power supply configured to supply power without interruption to the boot device if another power supply for the boot device fails.

45. (New) The computer system as recited in claim 33, wherein the boot device further comprises an LED component configured to indicate if one of the storage devices fails.

A2
46. (New) A method, comprising:

storing an operating system on a first storage device and on a second storage device;

providing access to the operating system stored on both the first storage device and the second storage device as a single boot device;

detecting a failure of one of the storage devices; and

upon said detecting, automatically continuing to provide access to the operating system stored on the non-failed one of the storage devices as the single boot device.

47. (New) The method as recited in claim 46, further comprising mirroring all writes to the single boot device to both the first storage device and the second storage device.

48. (New) The method as recited in claim 46, further comprising, in response to said detecting:

replacing the failed storage device with a replacement storage device; and

copying all data from the non-failed storage device to the replacement storage device.

A2
encl

49. (New) The method as recited in claim 46, further comprising:

removing the first storage device;

after removing the first storage device initiating an upgrade of the operating system stored on the second storage device;

determining if the upgrade successfully completes;

if the upgrade does not successfully complete, replacing the first storage device and restoring the operating system from the first storage device.
